

CLAIMS

- [1] An ultrasonic diagnostic apparatus comprising:
a transducer array in which a plurality of transducers for
transmitting an ultrasonic wave to a subject and receiving a reflected wave
5 therefrom are arrayed;
a delay addition unit for performing parallel reception by carrying out
a delay addition operation with respect to reception signals obtained by the
transducer array; and
a deflection angle control unit for controlling a deflection angle for
10 reception according to a setting for the delay addition operation carried out by
the delay addition unit,
wherein the deflection angle control unit narrows an angle formed
between a plurality of directions of reception directivities in the parallel
reception as a deflection angle of a transmission beam transmitted from the
15 transducer array increases.
- [2] The ultrasonic diagnostic apparatus according to claim 1, further
comprising a correction unit for performing control for changing sensitivity
correction amounts for a plurality of reception signals in the parallel
20 reception in a manner such that a decrease in a relative sensitivity in
transmission-reception due to an increase in the deflection angle of the
transmission beam is compensated.
- [3] The ultrasonic diagnostic apparatus according to claim 2, wherein the
25 correction unit performs correction such that any of the plurality of reception
signals received in a state such that angles between respective directions of
reception directivities in the parallel reception and a direction of a directivity
of the transmission beam are equal to one another have relative sensitivities

equal to one another.

- [4] The ultrasonic diagnostic apparatus according to any one of claims 1 to 3, wherein the deflection angle control unit performs control such that a difference between a deflection angle determining a direction of the transmission beam and a deflection angle determining a next direction of the transmission beam decreases as the deflection angle of the transmission beam increases.
- 10 [5] The ultrasonic diagnostic apparatus according to claim 4, wherein the plurality of transducers are arrayed at least two-dimensionally, and
- a plurality of points at which the transmission beam crosses a projection face form lattice points that are arrayed two-dimensionally at
- 15 uniform intervals.